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				Application Number	10/796,440
				Filing Date	03/09/04
				First Named Inventor	Bruce R. Crain
				Group Art Unit	28 21
				Examiner Name	Huedung Cao
Sheet	1	of	1	Attorney Docket Number	NORT 64197

U.S. PATENT DOCUMENTS						
Examiner Initials ²	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ³ (if known)			
KE		3,613,098		Blasko	10-12-1971	
		3,945,014		Kunert et al.	03-16-1976	
		3,977,004		Bickel	08-24-1976	
		4,291,311		Kaloi	09-22-1981	
		5,184,141		Connolly et al.	02-02-1993	
		5,355,144		Walton et al.	10-11-1994	
		5,959,586		Benham et al.	09-28-1999	
		6,160,522		Sanford	12-12-2000	
		6,198,445		Alt et al.	03-06-2001	
		6,366,254		Sievenpiper et al.	04-02-2002	
KE		6,480,170		Langley et al.	11-12-2002	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ²	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ³	Kind Code ³ (if known)				
KE		JP	3036804		Toyo Commun Equip Co Ltd	02-18-1991		

Examiner Signature		Date Considered	04/06/05
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